UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,992	04/17/2006	Robert E. Hefner JR.	62927A	8902
The Dow Chemical Company Intellectual Property Section P.O. Box 1967 Midland, MI 48641-1967			EXAMINER	
			WINKLER, MELISSA A	
			ART UNIT	PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			09/05/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/575,992	HEFNER, ROBERT E.	
Office Action Summary	Examiner	Art Unit	
	MELISSA WINKLER	1796	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication  - If NO period for reply is specified above, the maximum statutory pe  - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a r riod will apply and will expire SIX (6) MON atute, cause the application to become AB	CATION.  Sply be timely filed  ITHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2     This action is <b>FINAL</b> . 2b) □ 1     Since this application is in condition for alloclosed in accordance with the practice under	This action is non-final. wance except for formal matt		
Disposition of Claims			
4)  Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are without some claim(s) is/are allowed. 5)  Claim(s) 1-6 is/are rejected. 7)  Claim(s) 2-4 and 6 is/are objected to. 8)  Claim(s) are subject to restriction and contact some claim(s) are subject.	drawn from consideration.  nd/or election requirement.		
9) The specification is objected to by the Exam  10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the cor  11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyan rection is required if the drawing	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the papplication from the International But * See the attached detailed Office action for a	nents have been received. Hents have been received in A Poriority documents have been Treau (PCT Rule 17.2(a)).	oplication No received in this National Stage	
Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☑ Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 8/14/06.	Paper No(s	ummary (PTO-413) )/Mail Date formal Patent Application 	

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

**Claims 1 and 5** are rejected under 35 U.S.C. 102(e) as being anticipated by US 6,828,406 to Haasmann et al.

Regarding Claims 1 and 5. Haasmann et al. teaches a compound (Formula I) with one or more dienophile groups, one or more ring structures comprising two conjugated carbon-carbon double bonds and a leaving group (Column 3, Lines 6 – 39; Column 4, Line 63 – Column 5, Line 25). The compound further comprises side groups (S<sup>m</sup>) which may be discotic phthalocyanines (Column 8, Line 47 – Column 11, Line 19), a mesogenic moiety. Haasman et al. further teach the compound can be used to prepare a crosslinked polyphenylene polymer (Column 7, Lines 28 - 51).

Application/Control Number: 10/575,992 Page 3

Art Unit: 1796

## Allowable Subject Matter

Claims 2 – 4 and 6 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: the closest prior art of record (US 6,828,406 to Haasmann et al.) fails to teach or suggest the compound of Formula I, as set forth in Claim 2, comprised of a five-membered ring to which the claimed leaving group and mesogenic poragen-forming moiety are attached.

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MELISSA WINKLER whose telephone number is (571)270-3305. The examiner can normally be reached on Monday - Friday 7:30AM - 5PM E.S.T..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on (571)272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/575,992

Page 4

Art Unit: 1796

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mark Eashoo, Ph.D./ MW

Supervisory Patent Examiner, Art Unit 1796 August 29, 2008

1-Sep-08